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Surface modification of moulded resins - by contacting surface of polymers with aq. soln. of aluminium cpds. or boron cpds., as scavengers for liberated fluorine radicals

Patent Assignee: USHIO INC (USHE )

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JP 7179628 A 19950718 JP 93344657 A 19931221 199537 B JP 3211532 B2 20010925 JP 93344657 A 19931221 200162

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Abstract (Basic): JP 7179628 A

The surface of polymers contg. C-F bonding are modified by contacting with aq. soln. of Al cpds. or B cpds. as scavenger of liberated F radical and irradiating by the emitted light chosen from (1) Xe excimer laser-ray at distance of not greater than 5 mum, (2) Ar-Cl excimer laser-ray in not greater than 20 mum, (3) Ar-F excimer laser-ray in not greater than 2,000 mum or (4) UV of low pressure Hg lamp in not greater than 80 mum. The wall power loading of emission bulb is controlled in not less than 0.2 watts/square cm and the light emission part is, pref., cooled at not higher than 250deg.C, with the bulb walls contacting with electrodes at not higher than 300deg.C.

USE - Poly-fluoride resins give improved coating, printing and adhesion.

ADVANTAGE - The process is applied cheaply for high volume treatment.

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Derwent Class: A14; A35; E33; E36

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